

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Ulrich Laemmli and Samuel Janssen
U.S. Serial No. : Not Yet Known (Continuation-In-Part of
U.S. Serial No. 09/614,036, filed July
11, 2000)
Filed : Herewith
For : LINKED, SEQUENCE-SPECIFIC DNA-BINDING
MOLECULES

1185 Avenue Of The Americas
New York, New York 10036
July 11, 2001

Assistant Commissioner for Patents
Washington, D.C. 20231
Box: Patent Application

Sir:

**PRELIMINARY AMENDMENT TO THE ACCOMPANYING CONTINUATION-IN-PART
APPLICATION FILED UNDER 37 C.F.R. §1.53**

Applicants request that the following amendment be made in the
above-identified application:

In the Specification:

On page 1, after line 1, add the following paragraph:

This application is a continuation-in-part of U.S. Serial No.
09/614,036, filed July 11, 2000, the contents of which are hereby
incorporated by reference.

In the Claims:

Please cancel claims 6-50, 58-68, 73-78, 83-84.

Please amend claims 4, 51, 69, 70, 79, 80, and 81 under the
provisions of 37 C.F.R. §1.121(c) as follows. The Annotated

version of the amended claims is attached as **Attachment A**:

- 4. (Amended) DNA-binding molecule according to claim 2 wherein said heterocyclic residue is chosen from pyrrole, imidazole, triazole, pyrazole, furan, thiazole, thiophene, oxazole, pyridine, or derivatives of any of these compounds wherein one or more of the heteroatoms are substituted by a substituent which is DNA-binding or non-DNA-binding.--
- 51. (Amended) Process for binding double-stranded DNA in a sequence-specific manner, comprising contacting a DNA-target sequence within said DNA with a DNA-binding molecule according to claim 1, in conditions allowing said binding to occur.--
- 69. (Amended) Process for modulating chromosome function in a eukaryotic cell, comprising the step of contacting a genomic DNA element, comprising a binding site mediating chromosome function, with a molecule according to claim 1 and having the capacity to bind in a sequence-specific manner to said element, said step of contacting being carried out in conditions permitting binding of said compound to said element, wherein the binding modulates chromosome function.--
- 70. (Amended) Process for modulating the function of a DNA element in a eukaryotic cell, comprising the step of contacting a genomic DNA element, so-called "chromatin responsive element" (CRE), with a molecule according to claim 1 and having the capacity to bind in a sequence-specific manner to said CRE, said step of contacting being carried out in conditions

permitting chromatin remodeling of the CRE by said compound, wherein said chromatin remodeling of the CRE alters the activity of one or more other DNA elements, so called " modulated DNA elements " in the genome.--

--79. (Amended) Pharmaceutical composition comprising a compound according to claim 1 in association with a physiologically acceptable excipient.--

--80. (Amended) Compound according to claim 1, for use in therapy.--

--81. (Amended) Compound according to claim 1 which is fluorescent or fluorescently labelled.--

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REMARKS

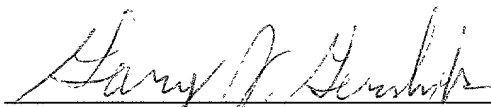
By this Preliminary Amendment, applicants have hereinabove amended the specification to include a reference to a parent application and amended the claims merely to reduce the filing fee. Accordingly, upon entry of this Amendment, claims 1-5, 51-57, 69, 70-72, 79 and 80-82 are pending in this application.

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicants' undersigned attorney invites the Examiner to telephone at the number provided below.

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No fee other than the filing fee of \$ 355.00 is deemed necessary
in connection with this Preliminary Amendment. However, if any
other fee is required, authorization is hereby given to charge
the amount of such fee to Deposit Account No. 03-3125.

Respectfully submitted,



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Attachment A
Amended claims with annotations of changes

- 4. (Amended) DNA-binding molecule according to claim 2 ~~or 3~~ wherein said heterocyclic residue is chosen from pyrrole, imidazole, triazole, pyrazole, furan, thiazole, thiophene, oxazole, pyridine, or derivatives of any of these compounds wherein one or more of the heteroatoms are substituted by a substituent which is DNA-binding or non-DNA-binding.--
-
- 51. (Amended) Process for binding double-stranded DNA in a sequence-specific manner, comprising contacting a DNA-target sequence within said DNA with a DNA-binding molecule according to ~~any one of claims 1 to 50~~, in conditions allowing said binding to occur.--
- 69. (Amended) Process for modulating chromosome function in a eukaryotic cell, comprising the step of contacting a genomic DNA element, comprising a binding site mediating chromosome function, with a molecule according to ~~any one of claims 1 to 50~~ and having the capacity to bind in a sequence-specific manner to said element, said step of contacting being carried out in conditions permitting binding of said compound to said element, wherein the binding modulates chromosome function.--

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- 70. (Amended) Process for modulating the function of a DNA element in a eukaryotic cell, Comprising the step of contacting a genomic DNA element, so-called "chromatin responsive element " (CRE), with a molecule according to ~~any one of claims 1 to 50~~ and having the capacity to bind in a sequence-specific manner to said CRE, said step of contacting being carried out in conditions permitting chromatin remodeling of the CRE by said compound, wherein said chromatin remodeling of the CRE alters the activity of one or more other DNA elements, so called " modulated DNA elements " in the genome.--
- 79. (Amended) Pharmaceutical composition comprising a compound according to ~~any one of claims 1 to 50~~ in association with a physiologically acceptable excipient.--
- 80. (Amended) Compound according to ~~any one of claims 1 to 50~~, for use in therapy.--
- 81. (Amended) Compound according to ~~any one of claims 1 to 50~~ which is fluorescent or fluorescently labelled.--